Preventing Storm Water Pollution

Regulatory Overview

- Clean Water Act
  - 1987 amendment established National Pollutant Discharge Elimination System (NPDES) regulations for municipal, industrial, and construction storm water discharges
- NPDES Phase I November 16, 1990
  - Large Municipal Separate Storm Sewer System (MS4) servicing a population of 100,000 or more - Municipal Permits
  - Industrial Facilities by SIC code – General Permit for Industrial Activities
  - Construction 5 + acres – General Permit for Construction Activities
- NPDES Phase II March 10, 2003
  - Small MS4 servicing less than 100,000 persons withi urbanized area
  - Construction over one acre
  - Authority to regulate federal and state facilities
- AZPDES Dec 5, 2002
  - ADEQ regulate NPDES Permits in Arizona
- Marine Corp – MCO P5090.2
  - Requires Marine Corp Bases to comply with storm wa pollution prevention
- MCAS Yuma
  - Industrial, Phase II and Construction Storm Water Pr
  - Aquifer Protection Program

Marine Corp Compliance

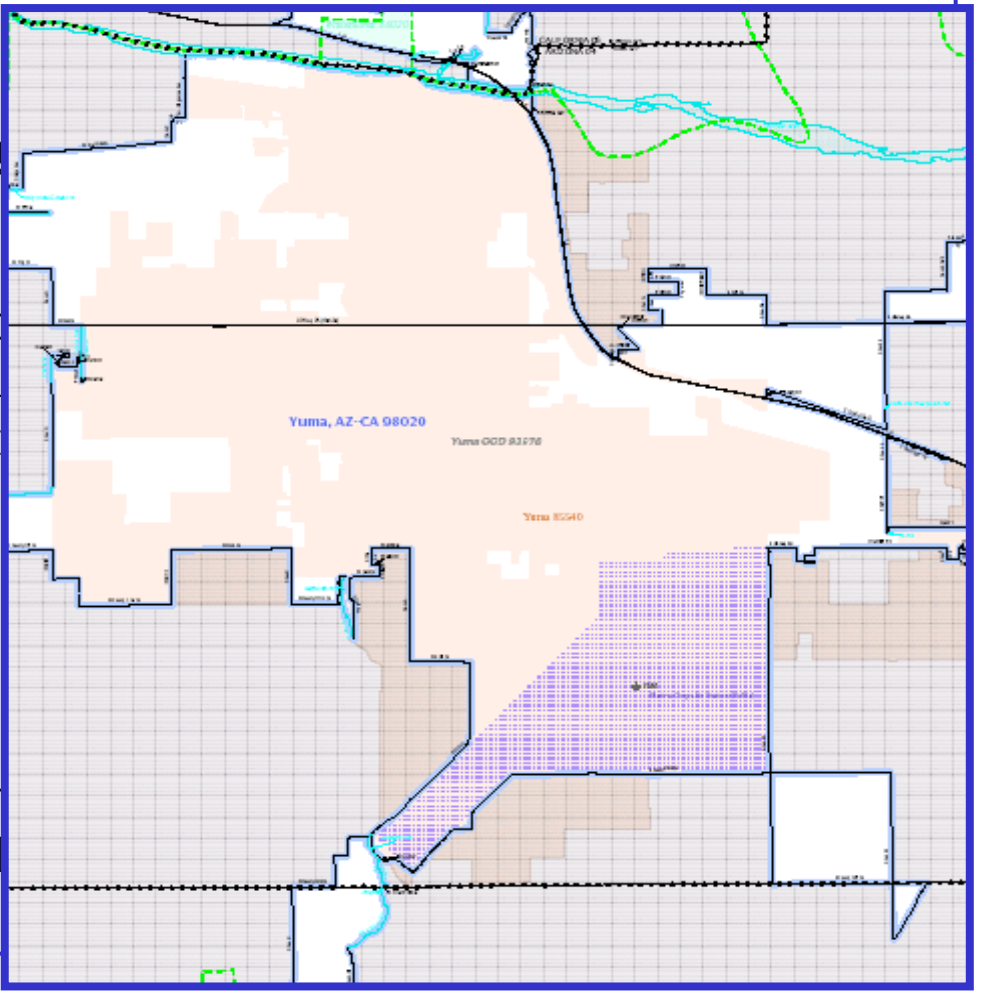
MCO P5090.2 indicates pollution prevention (including storm water) is important for Marine Corp personnel for three reasons:

- By respecting and maintaining the natural resources entrusted to the Marine Corps, the training opportunities enjoyed by today's Marines will be available for future generations of Marines,
- The Marine Corps is legally required to comply with federal and state environmental regulations that mandate storm water pollution prevention, and
- The Marine Corps strives to be a good neighbor in Yuma and to help protect the natural resources we all share.

MCAS Yuma Compliance

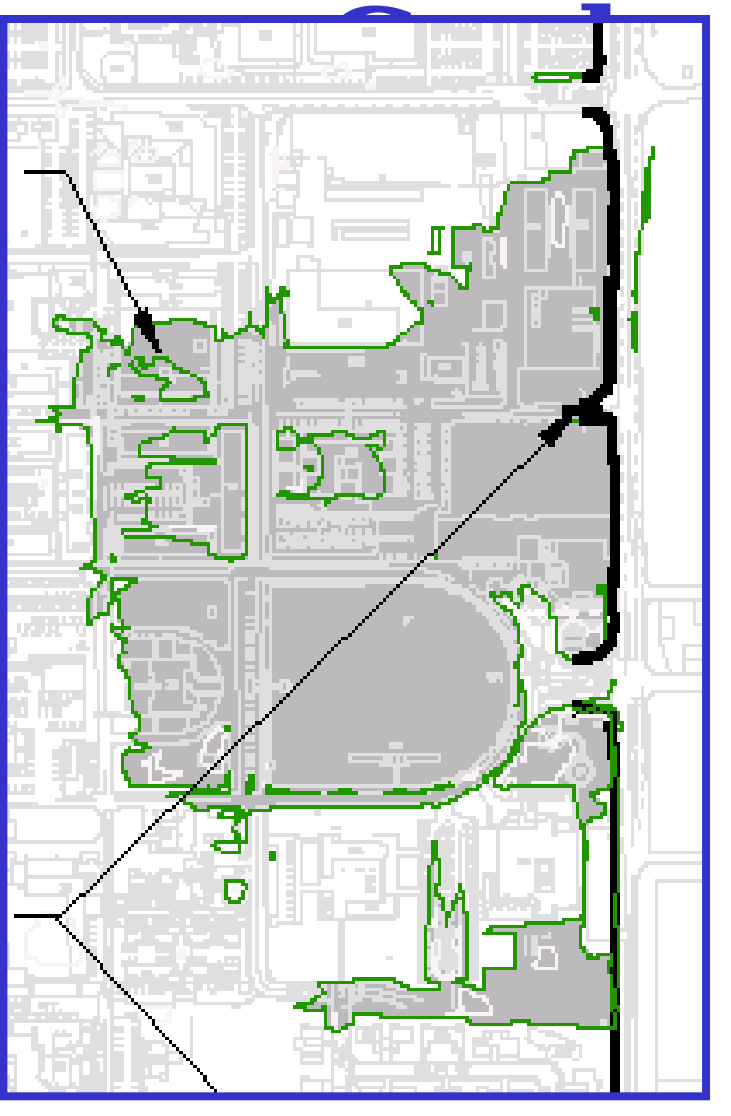
MCAS Yuma – must comply regardless of location and precipitation
MCAS has regulated industrial SIC codes and construction projects

- MCAS is located within the urbanized area and operates a regulated MS4
- An MS4 is a conveyance or system of conveyances including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, and storm drains designed or used for collecting or conveying storm water
- MCAS is in compliance if all Best Management Practices (BMPs) are adequate, properly implemented, maintained, and documented in the Storm Water Pollution Prevention Plan (SWPPP)

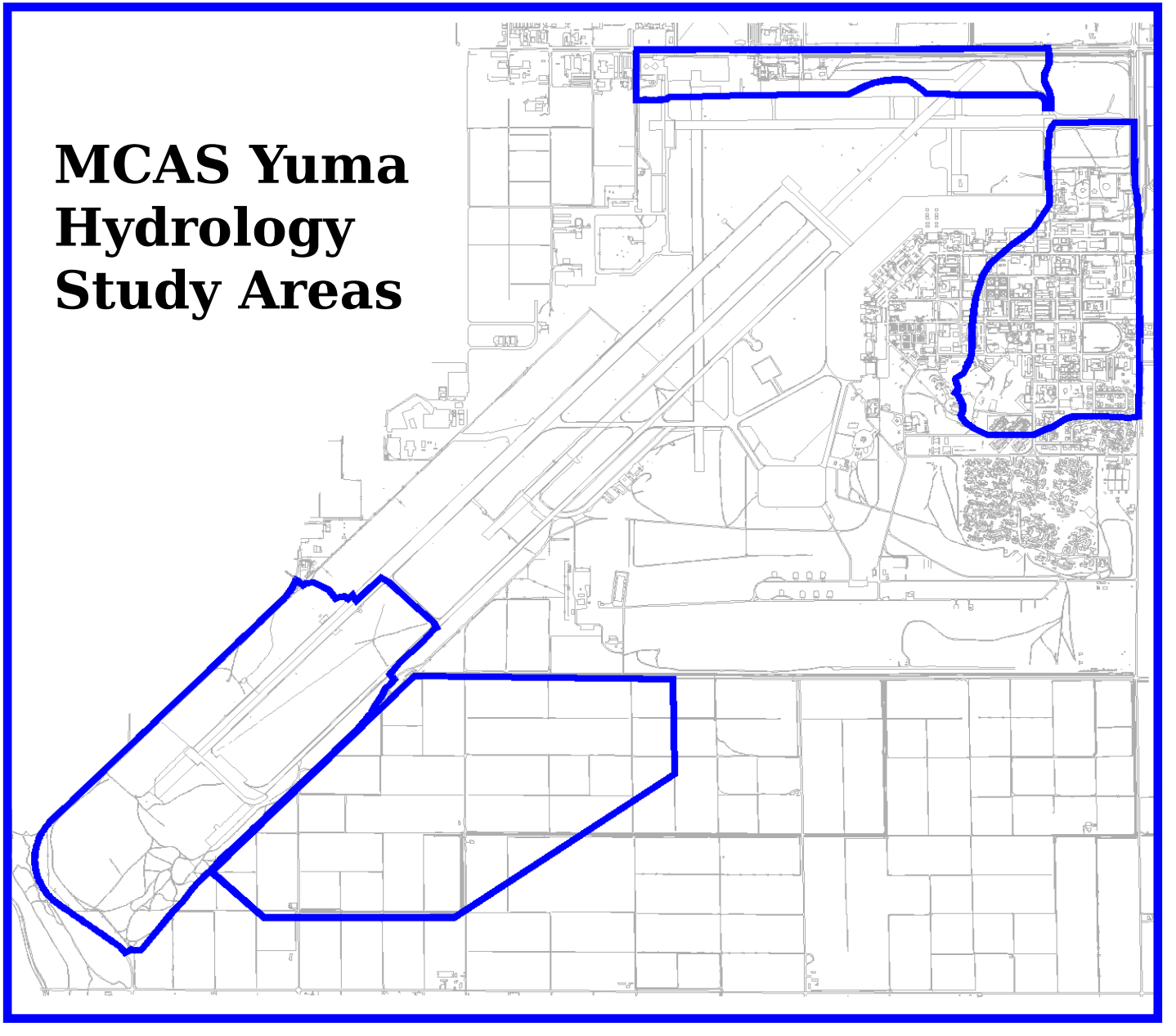


MCAS Yuma Long Term

- To prevent storm water discharge from the b
  boundary along 3E MCAS is evaluating cons
  storm water diversion structures along the b
  boundary to divert and retain the runoff on b
- To prevent storm water discharge from the b
  boundary with YCAA MCAS will construct re
  basins on base and storm water diversion alo
  boundary with YCAA to divert runoff into exi
  retention basins on base
- To prevent storm water discharge from soutl
  the Runway construct a large earthen berm
  storm water runoff and also construct earthe
  and a retention basin to collect all runoff bet
  berm and the road
- Drainage from the new weapons area constr
  earthen berm around the weapons compoun
  construct an additional retention basin to re
  water runoff



MCAS Yuma Hydrology Study Areas

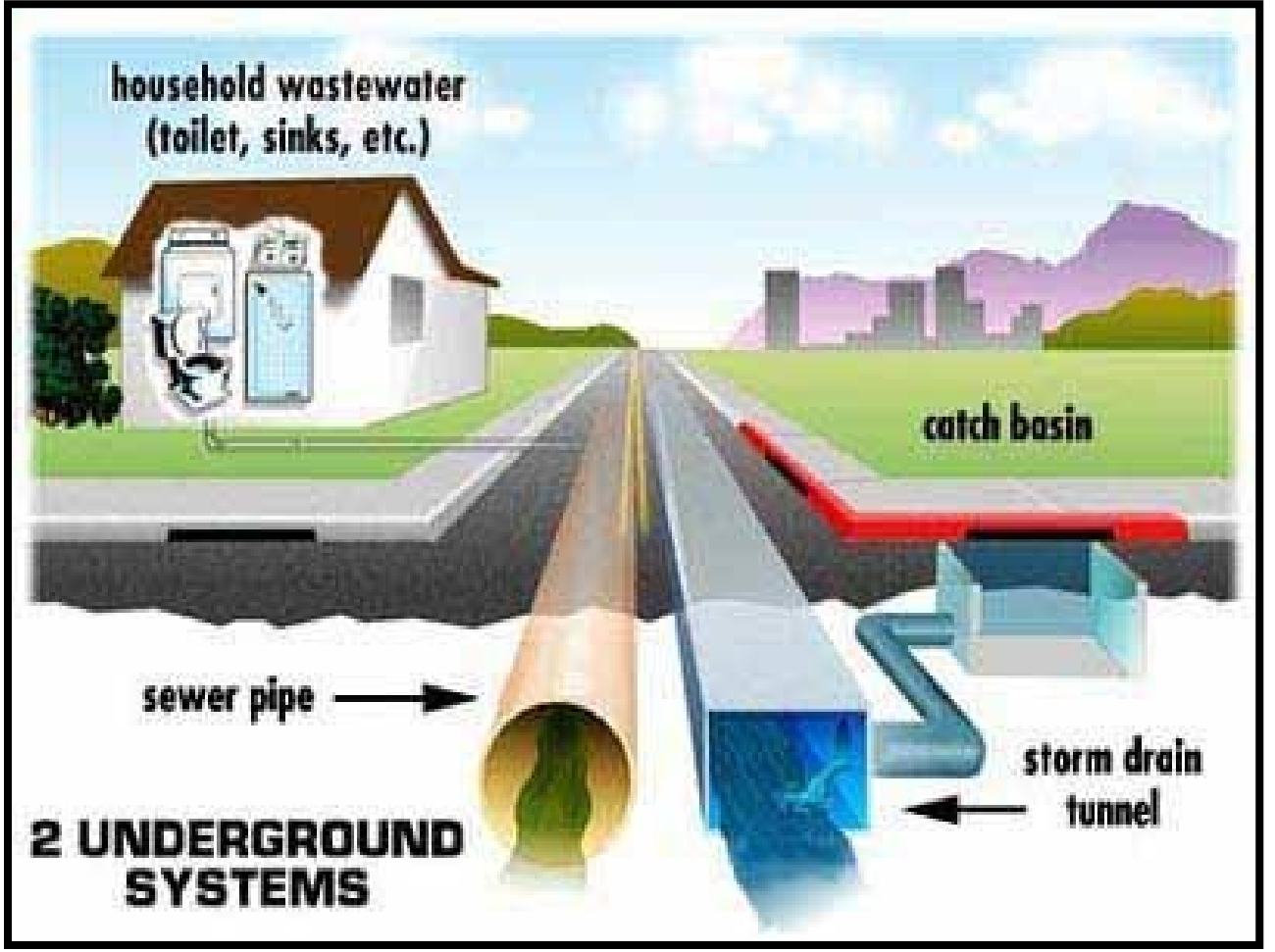


You !

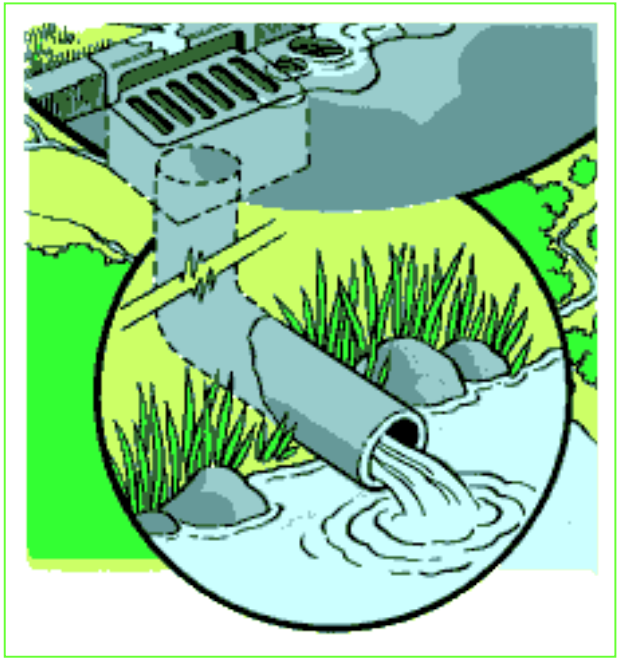
Can Be The Solution To *Municipal Storm Water* Pollution

What is Storm Water?

Storm water runoff is rain that flows across the ground and pavement during and after a storm. Typically, storm water runoff either seeps into the ground or drains into storm drains. Storm drains direct and collect storm water runoff through gutters, swales and channels, underground piping and retention basins. Storm water runoff is a serious concern in commercial, industrial and residential areas because of the pollutants it can carry. When polluted storm water enters the storm drain



The Storm Drain is NOT a Sewer!



Sewage is treated at a wastewater treatment plant.
Storm water discharges to lakes and rivers untreated!

IT'S THE LAW

Only Rain Down the Storm Drain!

Common Sources of Storm Water Pollution

- Vehicle Maintenance, Repair and Washing
- Vehicle Fueling
- Landscaping and Grounds Maintenance
- Household Activities
- Food Service Operations
- Improper Waste Disposal

Vehicle Maintenance, Repair Washing and Fueling

- Oil and Grease
- Antifreeze
- Gasoline & Diesel Fuel
- Brake Fluid
- Transmission Fluid
- Battery Acid
- Dirt and Debris
- Soaps and Solvents

Vehicle Maintenance and Repair Tips

- Properly maintain vehicles.
- Work in covered, contained areas.
- Use alternatives to hazardous materials.
- Always clean up spills and leaks.
- Dispose of wastes properly.
- Use drip pans.
- Store chemicals safely.
- Use a commercial shop.

Vehicle Fueling Tips

- Fuel vehicles in a contained area.
- Never “top off” the tan
- Clean up any spillage with rags or absorbent material.
- Properly dispose of contaminated trash.

Vehicle Washing Tips

- Wash all vehicles in contained areas.
- Wash water should be recycled or treated prior to discharge to the sanitary sewer.
- If containment is not possible, wash vehicles on gravel, grass, or other permeable surfaces.
- Block off the storm drain or use an insert to catch wash water.
- Use hoses with auto shut-off.
- Use only small amounts of biodegradable soap.

MCAS Yuma Facilities for Maintenance, Repair and Washing

Car Wash Facilities

Building 567

Auto Hobby Shops

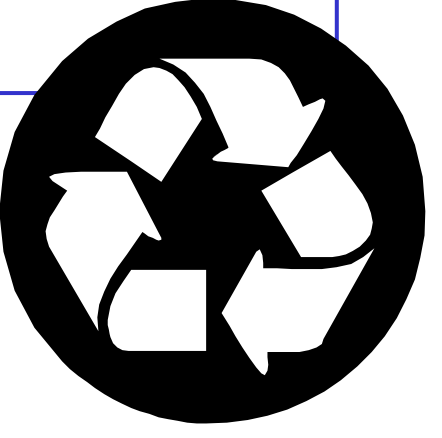
Building 564

AutoPride ServiCente

Building 570

Hazardous Waste and Materials Disposal and Recycling

- Take used oil to an commercial auto center or gas station with a recycling program.
- For a collection/recycling location near you, call 1-800-CLEANUP or visit the website at www.cleanup.org.
- Call the City of Yuma Department of Public Works (928) 783-1276 for dates and locations
- Call the County of Yuma Department of Public Works (928) 329-2306 for recycling information



Landscaping and Grounds Maintenance

- Litter, trash and debris
- Fertilizers, pesticides and herbicides
- Leaves, grass clippings and tree trimmings
- Soil and sediment
- Detergents, soaps and degreasers

Landscaping and Grounds Maintenance

Prevent Erosion:

- Prevent soil from washing or blowing into the street or storm drain.
- Protecting stockpiles and landscaped materials from wind and rain.
- Conduct grading and excavation activities during dry weather.
- Install plants after grading to stabilize areas of bare soil to minimize erosion.

Landscaping and Grounds Maintenance

Green Waste:

- Use dry cleaning methods to remove leaves, grass and tree trimmings. Do not l
into streets or storm dra

- Compost/recycle green v

- Use mulched grass clipp
as natural fertilizer.

Landscaping and Grounds Maintenance

Chemical Use:

Marine Corps policies for landscaping contractors require:

- An Integrated Pest Management Plan (IPMP) that describes the detailed strategy for pesticide use at a specific site.
- A state-licensed professio
chemicals.

Landscaping and Grounds Maintenance

Pesticides:

- Avoid chemical pest controls whenever possible.
- First try physical controls such as Caulking holes, barriers, hand picking
  and traps.
- Next try biological controls such as predatory insects and bacterial insecticides.

Landscaping and Grounds Maintenance

Fertilizers:

- Use fertilizers sparingly.
- Don't fertilize before a rain storm.
- Consider using organic fertilizers.
- Use commercially available compost or make your own using garden waste.

Landscaping and Grounds Maintenance

Chemical Use:

- Read the labels carefully and follow dilution instructions.
- Do not apply more product than you need.
- Select pest-specific pesticides.
- Do not fertilize land near ditches, storm drains, streams or other water bodies.
- Do not use chemicals if rain is expected.
- Properly store and dispose of the

Landscaping and Grounds Maintenance

Tips for Proper Irrigation:

- Use contractors with proven expertise in the design and maintenance of irrigation systems in the desert environment.
- Inspecting and maintaining the systems.
- Adjusting watering locations and amounts to specific conditions.
- Avoiding pesticide and fertilizer runoff.

Landscaping and Grounds Maintenance

In General:

- Properly dispose of all landscape wastes.
- Eliminate or minimize the amount of trash, debris and other pollu entering the storm drain sys
- Properly discharge swimming pool water.

Household Wastes

- Hazardous Chemicals
- General Trash and Debris
- Pet Waste

Household Wastes

- Use Dry Cleanup Methods.
- Store chemicals in a safe, dry place.
- Purchase non-toxic or safer products for household cleaning.
- Contain trash and other wastes.
- Report any leaks from trash can
  MCAS Environmental
  (928) 269-3201

How to be a Less Toxic Consumer

- Use elbow grease instead!
- Use less toxic alternatives whenever possible.
- Buy only the amount you need.
- Properly handle and store materials.
- Dispose of hazardous waste legally and safely.
- Call 800-CLEANUP for more information and the locations for used oil recycling and hazardous waste disposal.

Pet Wastes

- Scoop it up and flush it down the toilet.
- Seal the waste in a plastic bag and throw it in the garbage.
- Bury small quantities in your yard where it can decompose slowly.

Food Service Operations

- Litter, trash and debris
- Food related wastes/particles
- Oil and grease
- Detergents, soaps and degreasers

Food Service Operations

Preventative Measures:

- Collect, store and dispose of grease properly.
- Regularly inspect floor drains and grease traps.
- Pump out waste grease from traps often to ensure proper operation and prevent any overflows or backups.
- NEVER pour grease into a sink, floor drain, dumpster, storm drain, or sanitary sewer.

Food Service Operations

Cleaning Guidance:

- Replace any leaking trash receptacles.
- Keep receptacle lids closed and rainwater out.
- Properly clean and sanitize trash receptacles and loading dock areas.
- Seal storm drains first before cleaning
- All wash water must be disposed of in the city sewer system or another acceptable alternative.

You !

Can Be The Solution To

Construction Storm Water

Pollution

Phase II Construction Requirements

- MCAS is required to implement erosion and sediment control BMPs
- MCAS is required to control construction waste including
  - building materials,
  - concrete truck washout,
  - chemicals,
  - litter, and
  - sanitary waste
- MCAS is required to review plans t
  verify that water quality impacts h
  been addressed
- MCAS is required to address
  information submitted by the publi
- MCAS is required to perform site
  inspections and enforce control me
- MCAS is required to identify persons responsible for control measures

Phase II Construction Requirements

- MCAS is required to develop and implement strategies, including structural and/or non-structural BMPs to minimize the impact of new development and redevelopment on post construction storm water runoff
- MCAS is required to address po construction runoff from new development and redevelopmer projects
- MCAS is required to ensure ade long-term operation and maintenance of the BMPs.
- MCAS is required to identify per who will implement or coordina control measures

Construction General Permit Requirements

- Prior to commencement of construction activity
  - Submit a Notice of Intent at least 2 business days before soil disturbance
    - Executive officer or duly authorized representative must sign NOI
  - Develop a site specific SWPPP
- Coverage is required for clearing, grading, stockpiling, excavation or other ground disturbances over one acre
- Coverage is required for less than one acre if there is a significant water quality impairment
- MCAS Yuma's is responsible for obtaining coverage
- When are you covered?
  - Two business days after ADEQ receives a complete and correct NOI; and
  - An adequate SWPPP has been developed and implemented

Construction General Permit Exemptions

- Routine maintenance
  - Maintain original line and grade
  - Maintain hydraulic capacity
  - Maintain original purpose of facility
- Emergency construction activities required to protect public health and safety

Construction General Permit SWPPP

- SWPPP must be developed prior to the start of soil-disturbing activity
- Identify potential sources of pollution that affect storm water quality (including sediment)
- Identify non-storm water disch
- Identify, construct, implement and maintain BMPs during construction
- Develop a maintenance schedule for post-construction

Construction General Permit Inspections

- At least once every 7 days; or
- At least once every 14 days and within 24 hours after 1/2” or more prec
- Once each month if:
  - The site is temporarily stabilized
  - Construction is during arid season in an area less than 20” of annual precipitation
- A compliance Evaluation Report will be developed for each inspection

Construction Rainfall Erosivity Waiver & Time

ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM	Stormwater Program - Water Quality Division Arizona Department of Environmental Quality 1110 W. Washington, Phoenix, Arizona 85007 **PERMIT WAIVER CERTIFICATION** under AZPDES Permit No. AZG2003-001 for *Construction Activity Discharges to Waters of the United States*

CHECK AS APPLICABLE: NEW WAIVER * REVISED WAIVER

* IF A REVISION, PROVIDE PRIOR WAIVER NO. _____

Is the Site Located on Indian Country Lands? (Y or N): _____

I. OWNER/OPERATOR (Applicant) INFORMATION

Operator Name: _____ Phone: _____

Operator's Business Name _____

Operator's Address: _____

City: _____ State: |__|__| Zip Code: _____

OPERATOR STATUS: Federal ___ State ___ Other Public ___ Private ___ Tribal ___

II. CONSTRUCTION SITE INFORMATION

Project/Site Name: _____ Phone: _____

Site physical location (include address, if applicable and finding directions from nearest city):

_____

_____

County: |__|__|__|__|__|__|__|__|__|__|__|__| Zip Code |__|__|__|__|-|__|__|__|

Latitude: |__|__|__|-|__|__|-|__|__| Longitude: |__|__|__|-|__|__|-|__|__|

Township: |__|__|__| Range: |__|__| Section: |__|__| Quarter: |__|__| Quarter: |__|__| Quarter: |__|__|

Earliest Project Start Date _____ Latest Completion Date _____

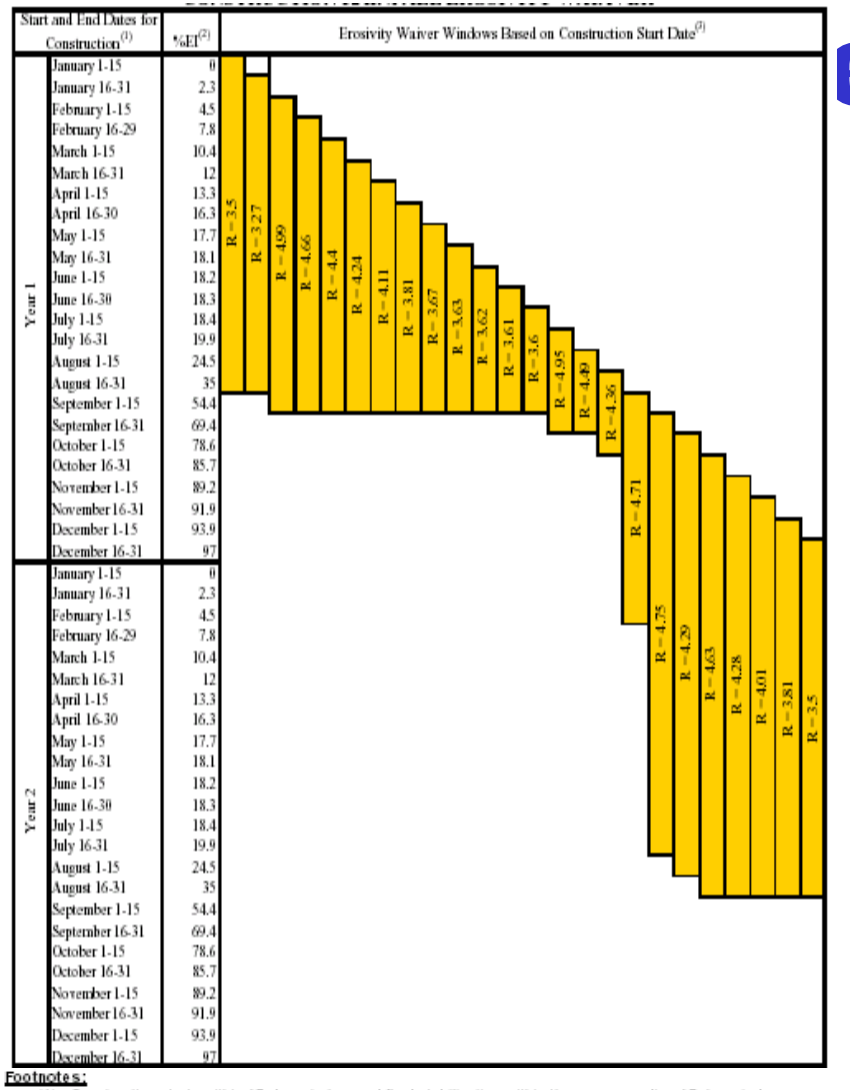
Estimate of total acres to be disturbed with the project (to the nearest acre) _____

Estimate of total acres to be disturbed by your operations _____

Will the discharge enter a municipal storm sewer system, canal, or a privately-owned conveyance?

YES * NO *

If yes, enter name of system/conveyance owner: _____



Footnotes:

(1) - Construction starts within 15-day window and final stabilization within the corresponding 15-day window

(2) – %EI (Erosivity Index) values are for Zone 68 - Yuma, Arizona from EPA Fact Sheet 3.1, EPA 833-F-00-014.

(3) -The waiver windows are periods where the R-value is less than five for the duration of the construction activity.

R-value is calculated as follows:

$R = (EI_2 - EI_1) * R_A / 100$

EI_1 - EI at start construction

EI_2 - EI at end of construction

R_A = 10 (Annual R-value for Yuma, AZ)

Construction General Permit NOI

ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM

Stormwater Program - Water Quality Division
Arizona Department of Environmental Quality
1110 W. Washington, Phoenix, Arizona 85007

NOTICE OF INTENT (NOI) FOR COVERAGE

under AZPDES Permit No. AZG2003-001 for
Construction Activity Discharges to Waters of the United States

CHECK AS APPLICABLE NEW NOI • REVISED NOI •
IF A REVISION, PROVIDE PRIOR AUTHORIZATION NO. _____

Is the Site Located on Indian Country Lands? (Y or N): _____

I. OWNER/OPERATOR (Applicant) INFORMATION

Operator Name:_____ Phone: _____
Operator's Business Name _____
Operator's Address: _____
City: _____ State: |__|__| Zip Code: _____
OPERATOR STATUS: Federal ___ State ___ Other Public ___ Private ___ Tribal ___

II. CONSTRUCTION SITE INFORMATION

Project/Site Name:_____ Phone: _____
Type of Project (subdivision, school, commercial, etc.) _____
If a subdivision, has subdivision approval been obtained. Yes No
If yes, the name and number of the subdivision _____
Is the project part of a greater plan of development? Yes No
Does the project have or need other environmental permits? If so, list: _____
_____
Site physical location (include address, if applicable and finding directions from nearest city):
_____
_____
County: _____ Zip Code _____
Latitude: _____ Longitude: _____
Township: |__|__|__| Range: |__|__| Section: |__|__| Quarter: |__|__| Quarter: |__|__| Quarter: |__|__|
Estimated Project Start Date _____ Estimated Completion Date _____

Notice of Intent (NOI) for Coverage under AZPDES Permit No. AZG2003-001 - Page 2

Estimate of total acres to be disturbed with the project (to the nearest acre) _____
Estimate of total acres to be disturbed by your operations _____
List any non-storm water discharges expected to be associated with construction activities: _____
_____
_____
_____

II. RELATIONSHIP TO WATERS

Name of closest waters to construction site: (including dry washes, named waterbodies, and unnamed tributaries):_____
Name of closest perennial waters to construction site: _____
Distance from the site to the perennial waterbody: within 1/4 mile ___ 1/4 -1/2 mile ___ > 1mile ___ > 5 miles ___
Is the construction site located within 1/4 mile of an impaired water, or does it discharge to an impaired water (listed under 303(d) of the CWA)? YES • NO •
Will the discharge enter a municipal storm sewer system, canal, or a privately-owned conveyance? • YES • NO
If yes, enter name of system/conveyance owner: _____

IV. Check the following statement, if true. Permit authorization can not be granted until a SWPPP has been developed and implemented according to the terms of the Construction General Permit, AZG2002-003:

- STORM WATER POLLUTION PREVENTION PLAN (SWPPP). I confirm that a SWPPP meeting the requirements of this general permit has been developed and will be implemented prior to commencing construction activities at this site.

The SWPPP may be viewed at the following location: _____
To view the SWPPP, contact: (name and phone of contact person) _____

V. CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons direction responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition I certify that the permittee will comply with all terms and conditions stipulated in General Permit No. AZG2002-003 issued by the Director."

Printed Name: _____ Title: _____
Signature: _____ Date: _____
Address: _____
Phone: _____

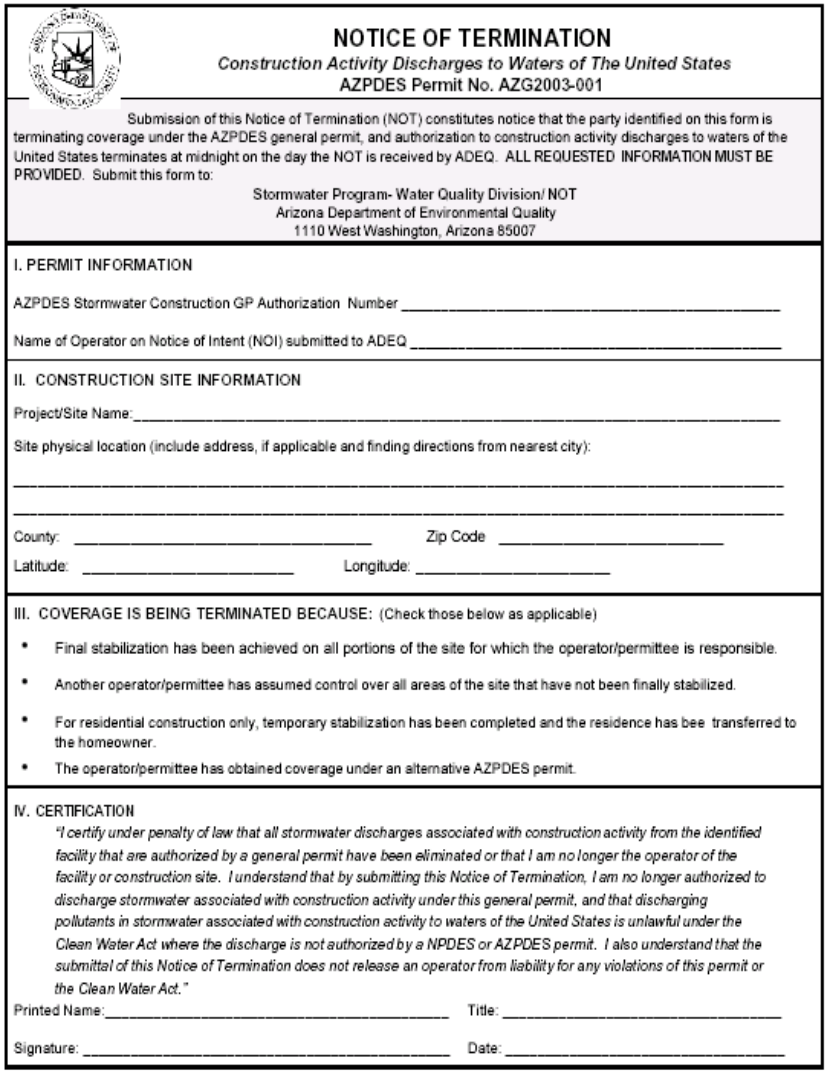
Construction General Permit NOT

Final stabilization

All soil disturbing activities have been completed and:

- Perennial vegetation with a density of 70% of the background vegetation has been established; or
- Equivalent permanent stabilization is in place (gravel, riprap, geotextiles)

If background vegetation does not cover the entire surface the required cover is adjusted to 70% of the background vegetation. An area with 50% background vegetation would require 35% total cover for final



NOTICE OF TERMINATION

Construction Activity Discharges to Waters of The United States

AZPDES Permit No. AZG2003-001

Submission of this Notice of Termination (NOT) constitutes notice that the party identified on this form is terminating coverage under the AZPDES general permit, and authorization to construction activity discharges to waters of the United States terminates at midnight on the day the NOT is received by ADEQ. ALL REQUESTED INFORMATION MUST BE PROVIDED. Submit this form to:

Stormwater Program- Water Quality Division/ NOT
Arizona Department of Environmental Quality
1110 West Washington, Arizona 85007

I. PERMIT INFORMATION

AZPDES Stormwater Construction GP Authorization Number _____

Name of Operator on Notice of Intent (NOI) submitted to ADEQ _____

II. CONSTRUCTION SITE INFORMATION

Project/Site Name:_____

Site physical location (include address, if applicable and finding directions from nearest city):

_____

_____

County: _____ Zip Code _____

Latitude: _____ Longitude: _____

III. COVERAGE IS BEING TERMINATED BECAUSE: (Check those below as applicable)

- Final stabilization has been achieved on all portions of the site for which the operator/permittee is responsible.
- Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized.
- For residential construction only, temporary stabilization has been completed and the residence has bee transferred to the homeowner.
- The operator/permittee has obtained coverage under an alternative AZPDES permit.

IV. CERTIFICATION

"I certify under penalty of law that all stormwater discharges associated with construction activity from the identified facility that are authorized by a general permit have been eliminated or that I am no longer the operator of the facility or construction site. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge stormwater associated with construction activity under this general permit, and that discharging pollutants in stormwater associated with construction activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES or AZPDES permit. I also understand that the submittal of this Notice of Termination does not release an operator from liability for any violations of this permit or the Clean Water Act."

Printed Name:_____ Title: _____

Signature: _____ Date: _____

Construction General Permit Boiler SWPPP

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FIGURES

FIGURE 1 GENERAL LOCATION

FIGURE 2 SITE MAP

APPENDICES

APPENDIX A NOI APPLICATION TO ADEQ

APPENDIX B ADEQ CERTIFICATE AND AUTHORIZATION NUMBER

APPENDIX C AZPDES GENERAL PERMIT NO. AZG2003-001 FOR DISCHARGES FROM CONSTRUCTIOJN ACTIVITIES TO WATER OF THE UNITED STATES

APPENDIX D INTERAGENCY AGREEMENTS

You !

Can Be The Solution To *Industrial Storm Water* Pollution

Industrial General Permit Requirements

Industrial Storm Water Discharges from MCAS Yuma are regulated by the ADEQ utilizing the EPA Storm Water Multi-Sector General Permit for Industrial Activities. The General Permit requires the following:

- Develop, implement, and revise a SWPPP that is appropriate to site-specific conditions;
- Eliminate unauthorized non-storm
  discharges (including illicit connec
  to the storm water conveyance sys
- Identify authorized non-storm wat
  discharge locations and associated
- Conduct an Annual Comprehensive
  Compliance Evaluation;
- Perform quarterly visual monitorin
  storm water discharges.

Industrial General Permit SWPPP

MCAS Yuma has developed a Storm Water Discharge Management Plan (SWDMP) to address all the requirements of the Multi-Sector General Permit. The SWPPP is an element of the SWDMP and has two major objectives.

- To identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of storm water discharges and authorized non-storm water discharges from the facility.

- To identify and implement site-specific BMPs to reduce or prevent pollutants associated with industrial activities in storm water discharges and authorized non-storm water discharges

Industrial General Permit

SWPPP

The MCAS Yuma SWPPP addresses the following requirements:

- Description of existing storm water controls (BMPs);
- The elimination of all unauthorized non-storm water discharges;
- An assessment of endangered species and historic places.
- A list of significant spills and leaks during the three years prior to submittal of the NOI;
- Identify the Pollution Prevention T
- General Location Map;
- A site map;
- Location of receiving water;
- A summary of potential pollutant sources.

Industrial General Permit Authorized Non-Storm Water Discharges

Non-storm water discharges to waters of the United States are prohibited except for authorized non-storm water discharges listed in the General Permit. Prohibited non-storm water discharges must be eliminated or have a NPDES permit. Allowable non-storm water discharges are authorized if the SWPPP includes:

- Identification of each allowable non-storm water source
- The location where it is likely to be discharged
- Descriptions of appropriate BMPs for each source
- All sources of allowable non-storm w that are discharged under the auth this permit, except for flows from emergency fire fighting activities

Industrial General Permit Authorized Non-Storm Water Discharges

Allowable non-storm water identified in the General Permit include:

- Discharges from fire fighting activities;
- Fire hydrant flushing;
- Potable water including water line flushing
- Uncontaminated air conditioning or compr condensate;
- Irrigation drainage;
- Uncontaminated ground water or spring w
- Routine external building wash down whic not use detergents;
- Landscape watering provided that all pesti herbicides, and fertilizer have been applied instructions;

- Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
- Foundation or footing drains where flows are not contaminated with process materials such as solvents; and
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g., ‘‘piped’’ cooling tower blowdown or drains).

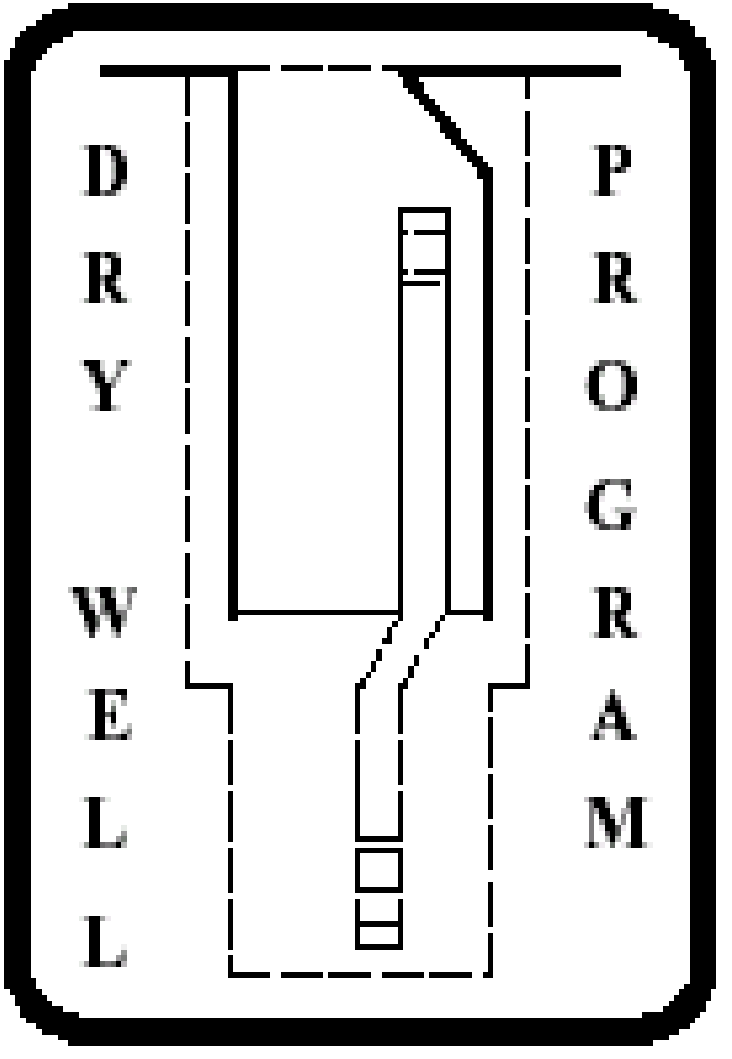
Industrial General Permit ACSCE

The Annual Comprehensive Site Compliance Evaluation (ACSCE) requires:

- Visual inspection of areas where industrial materials or activities are exposed to storm water to identify potential sources of pollution or evidence of pollution;
- Observations of erosion controls and structural storm water BMPs;
- Evaluation of BMPs to verify they are adequate and properly implemented
- Recommend additional BMPs;
- Provide data to update the SWPPP;
- If a change has occurred that impacts t quantity of pollutants in storm water discharges the SWPPP must be update within two weeks of the ACSCE and BMPs must be implemented before the next anticipated storm or within 12 we of the ACSCE.

Aquifer Protection

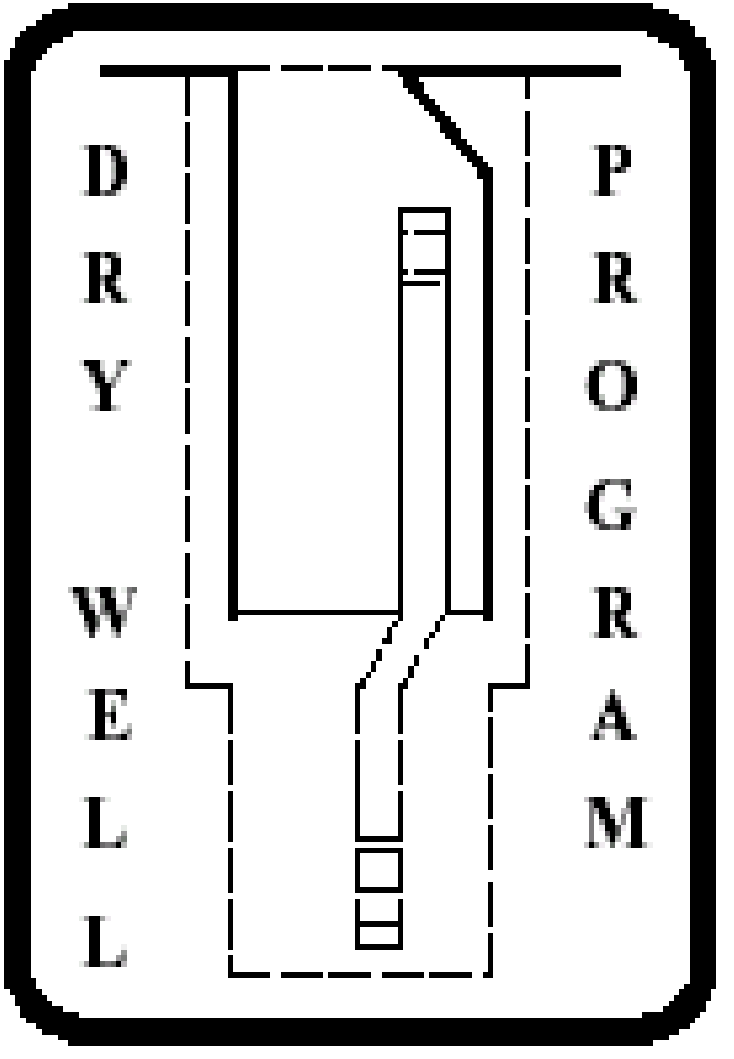
- What is a Dry Well ?
- Where are Dry Wells Located at MCAS Yuma ?
- Why Does MCAS Yuma Have Dry Wells ?
- What is Allowed in a Dry Well ?
- Are Dry Wells Regulated ?



Aquifer Protection

What is a Dry Well?

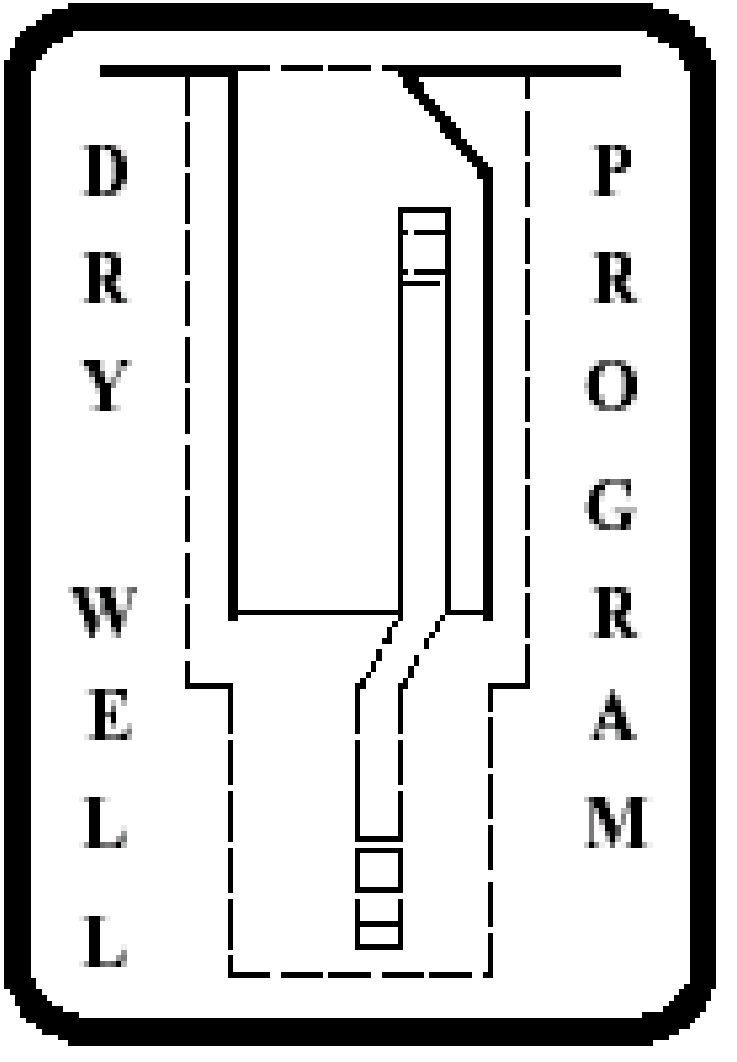
A dry well is defined as a bored, drilled or driven shaft or hole in which the depth is greater than the width and is designed specifically for storm water.



Aquifer Protection

Where are Dry Wells Located at MCAS Yuma?

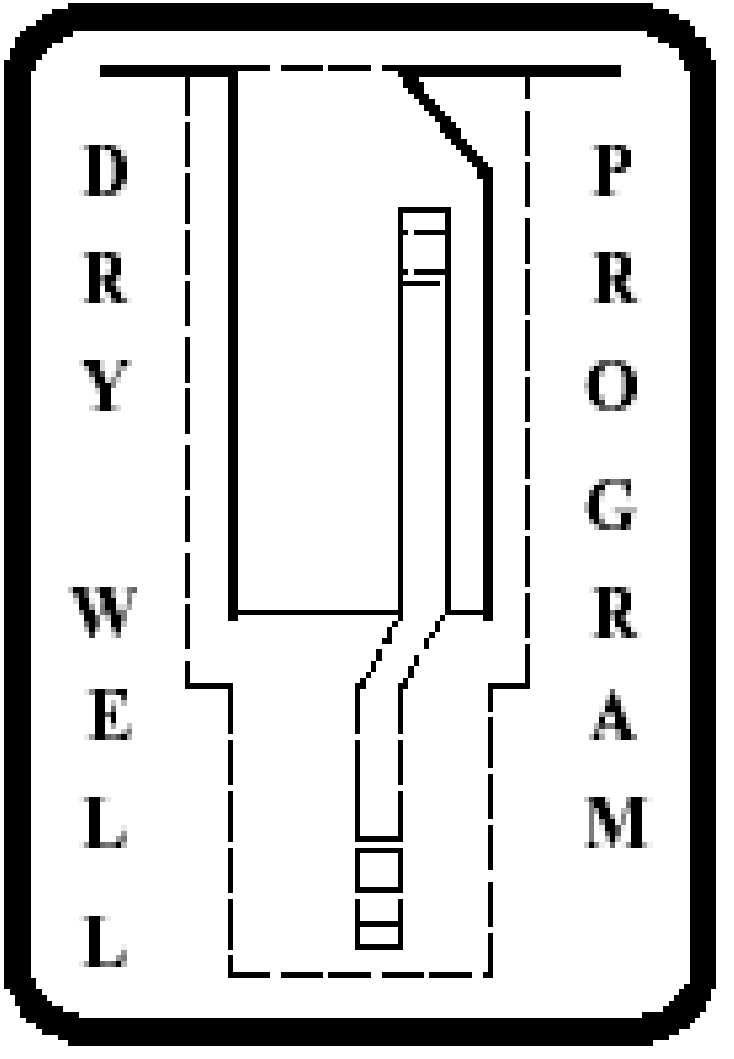
MCAS Yuma has 66 dry wells at the Main Base. Of theses 35 are located in areas where hazardous substances are used, stored, loaded or



Aquifer Protection

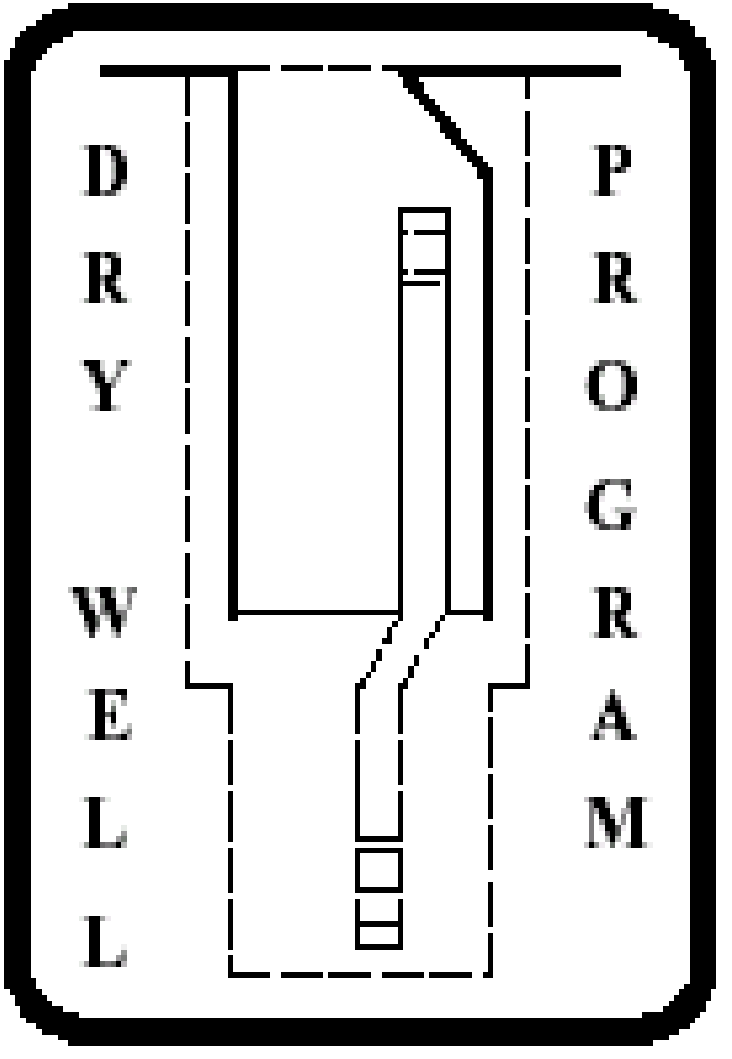
Why Does MCAS Yuma Have Dry Wells ?

Dry wells are used for storm water management and where storm water basins would not be feasible.



Aquifer Protection

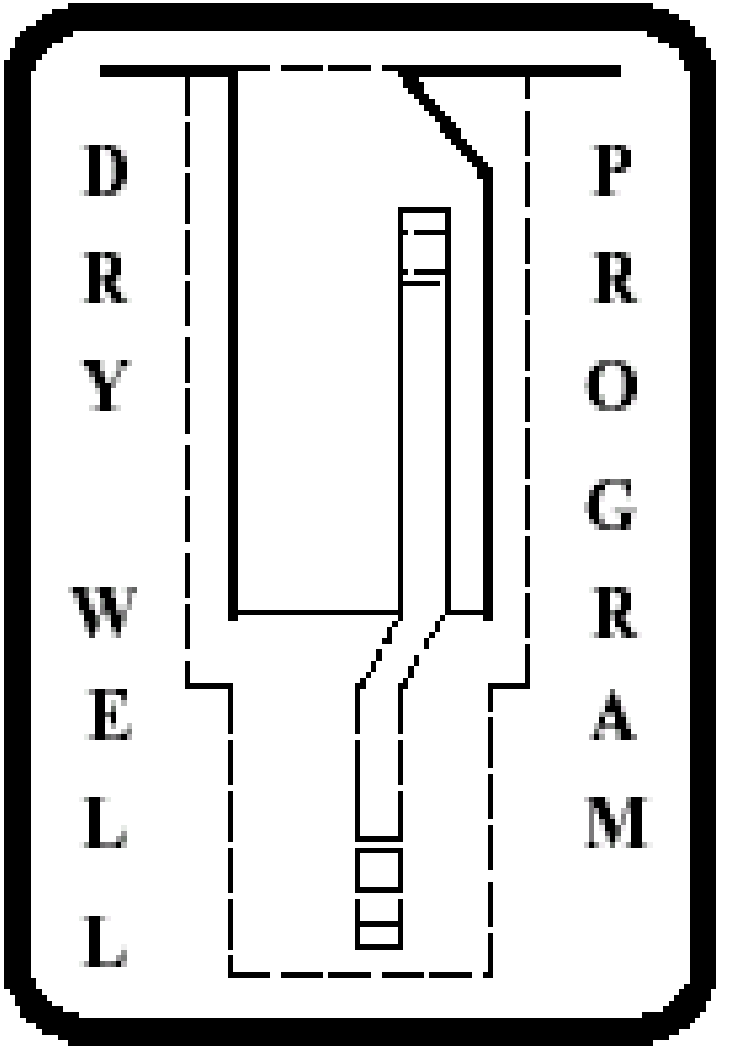
What is Allowed in a Dry Well ?



Aquifer Protection

Are Dry Wells Regulated ?

The dry wells located in the industrial areas are grouped into areas of concern and required a dry well investigation and permitting



Marine Corps Storm Water Programs

- Clean Water Act requires the Marine Corps to minimize storm water pollution.
- Storm water permits mandate pollution prevention practices.
- Requires cooperation among all Station operations, industrial and non-industrial.

MCAS Yuma Pollution Prevention Resources

Telephone Contacts

MCAS Environmental	(928) 269-3201
MCAS Housing	(928)269-3640
County of Yuma Department of Public Works	(928) 329-2306
City of Yuma Department of Public Works	(928)783-1276
Earth 911	(800) CLEANUP

Informative Websites:

ADEQ
www.adeq.state.az.us/environ/water

Earth 911 Network:	www.earth911.org
Navy Storm Water Training	www.nelp.navy.mil/training/sw